	Application No.	Applicant(s)
Notice of Allowability	10/628,751	VENKATESAN ET AL.
	Examiner	Art Unit
	ANH H. DO	2624
	ANH H. DO	2024
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>Amendment on 9/26/2007</u> .		
2. The allowed claim(s) is/are <u>1-15</u> .		
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a)		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. X Interview Summary	
3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>9/26/2007</u>	Paper No./Mail Dat 7. ⊠ Examiner's Amendn	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
or biological Material	9. Other	
		marelle
		ANH HONG DO

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06) Application/Control Number: 10/628,751

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kayla Brant on 11/26/2007.

The application has been amended as follows:

IN THE CLAIMS:

--7. (Currently Amended) A computer-implemented hashing method, comprising:

computing a hash value representative of a digital image, as a whole, such that images that are visually distinct result in hash values that are approximately independent of one another and images that are different but visually similar result in identical hash values; and

watermarking the digital image with a watermark derived, in part, using the hash value, whereby a comparison between the digital image with the watermark and a second image indicates whether the second image is a legitimate copy of the digital image.--

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Response to Arguments

2. Applicant's arguments, see Remarks (pages 11 and 12), filed 9/26/2007, with respect to claims 1-15 have been fully considered and are persuasive. The rejection of claims 1-15 has been withdrawn.

Allowable Subject Matter

- 3. Claims 1-15 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:
 - * Independent claim 7 has been amended to include allowable subject matters;
- * The present invention provides a new method, system, and computer readable storage medium for hashing digital images in a way that allows modest changes to an image, which may or may not be detectable to the human eye, yet does not result in different has values for the original and modified images (specification, page 5, lines 6-9).

Particularly, the new method, system, and computer readable storage medium comprise the following features, which the prior art taken either singly or in combination does not teach:

- deriving a single hash value... or visually similar (see independent claim 1);
- deriving a hash value... in identical has values; and watermarking... attacks (see independent claim 5);
- computing a single hash value... in identical hash values (see independent claims 6, 7, 8, 11 and 12).

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANH H. DO whose telephone number is 571-272-7433. The examiner can normally be reached on 5/4-9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EILEEN LILLIS can be reached on 571-272-6928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

November 29, 2007

ANH HONG DO
PRIMARY EXAMINER